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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 31229-231165 U.S. APPLICATION NO. (if known) see 37 CFR 1.5) 107580455 No. Yet Assigned
INTERNATIONAL APPLICATION NO. PCT/GB2004-004814	INTERNATIONAL FILING DATE 17 November 2004	PRIORITY DATE CLAIMED 28 November 2003
TITLE OF INVENTION IMPROVEMENTS FOR FUEL COMBUSTION		
APPLICANT(S) FOR DO/EO/US Nigel David TIMMS and Baljit SINGH		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) WO 2005/054658 A1. <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). </p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 with Form PCT/IB/308A.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p>		

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U. S. APPLICATION NO. (if known, see 37 CFR 1.52) 10/580455	INTERNATIONAL APPLICATION NO. PCT/GB2004-004814	ATTORNEY'S DOCKET NUMBER 31229-231165	
20. <input checked="" type="checkbox"/> Other items or information: Return Receipt Postcard Submission of Formal Drawings Transmittal with 54 sheets of drawings, Figs. 1-54 International Search Report Form PCT/ISA/220 Form PCT/ISA/237 (Written Opinion of The International Searching Authority) Form PCT/IB/311 and Forms PCT/RO/101			
The following fees have been submitted			
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) \$300			
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations \$200			
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400 All other situations \$500			
TOTAL OF 21, 22 and 23 = \$ 900.00			
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.			
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	
- 100 =	/50 =	x \$250.00	
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).			
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	18 - 20 =	x	0.00
Independent claims	5 - 3 =	2	x 200.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+
TOTAL OF ABOVE CALCULATIONS =			\$ 1,300.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.			
SUBTOTAL =			\$ 1,300.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			\$
TOTAL NATIONAL FEE =			\$ 1,300.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property			\$ 40.00
			\$
TOTAL FEES ENCLOSED =			\$ 1,340.00
			Amount to be refunded: \$
			Amount to be charged \$ 1,340.00

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149 Rec'd PCT/PTO 24 MAY 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 03/31/2007. OMB 0651-0021

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. Please charge my Deposit Account No. 22-0261 in the amount of \$ 1,340.00 to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 22-0261. A duplicate copy of this sheet is enclosed.
- d. Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

MAY 24, 2006

SIGNATURE

SEND ALL CORRESPONDENCE TO:

CUSTOMER NUMBER: 26694

Michael A. Sartori, Ph.D.
NAME

41,289
REGISTRATION NUMBER

#753368

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2006

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT **(\$)** **1,340.00**

Complete if Known

Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Nigel David TIMMS
Examiner Name	Not Yet Assigned
Art Unit	Not Yet Assigned
Attorney Docket No.	31229-231165

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____

Deposit Account Deposit Account Number: **22-0261** Deposit Account Name: **Venable LLP**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee

Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 Credit any overpayments

FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fees Paid (\$)
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)

<u>Small Entity</u>	<u>Fee (\$)</u>
Fee (\$)	Fee (\$)

50 25

Each independent claim over 3 (including Reissues)

200 100

Multiple dependent claims

360 180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
18	- 20 =	x	=

Multiple Dependent Claims

<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
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HP = highest numer of total claims paid for, if greater than 20.

<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
5	- 3 =	2	x 200.00 = 400.00

HP = highest numer of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<u>Total Sheets</u>	<u>Extra Sheets</u>	<u>Number of each additional 50 or fraction thereof</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
- 100 =	/50	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 8021 Recording each patent assignment, agreement or ... 40.00

1631 Basic National Stage fee 300.00

1642 National Stage Search Fee - search report ... 400.00

1633 National Stage Examination Fee - all other ... 200.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	41,289	Telephone	(202) 344-4000
Name (Print/Type)	Michael A. Sartori, Ph.D.	Date	May 24, 2006		

#753444

10/580455

IAPS Rec'd PCT/PTO 24 MAY 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Nigel David TIMMS et al.	International Application No.: PCT/GB2004/004814
Appl. No.: Not Yet Assigned	International Filing Date: November 17, 2004
Art Unit: Not Yet Assigned	
Confirmation No.: Not Yet Assigned	Examiner: Not Yet Assigned
Filed: Concurrently Herewith	Atty. Docket No.: 31229-231165
For: IMPROVEMENTS FOR FUEL COMBUSTION	Customer No. 26694 PATENT TRADEMARK OFFICE

Submission Of Formal Drawings

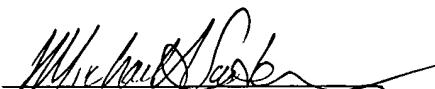
Commissioner of Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are 54 sheets of formal drawings containing Figures 1a-1c, 2a-2c, 3a-3c, 4a-4c, 5a-5c, 6a-6c, 7a-7c, 8a-8c, 9a-9c, 10a, 10b, 11a, 11b, 12, 13a-13c, 14a-14c, 15a, 15b, 16a, 16b, 17a-17c, 18a, 19a, 19b and 20-25.

Respectfully submitted,

Date: May 24, 2005


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